



APPENDIX

ENVIRONMENTAL CORRESPONDENCE

BAGDAD AIRPORT MASTER PLAN UPDATE
BAGDAD, ARIZONA



20 August 1998
File: 28342801

Game & Fish Department
2221 W. Greenway Road
Phoenix, AZ 85023-4399

Attention: Nancy Olson

Dear Ms. Olson:

Reference: Bagdad Airport Master Plan Update

Stantech Consulting, Inc. is in the process of preparing a master plan update for the Bagdad Airport. At this point in time, there are no identified needs for new construction. However, we would like to request any information you have regarding threatened, endangered, or special status species in the area of the airport.

Any additional comments you wish to submit would be appreciated. Due to time limitations, comments on or before **September 14** would be appreciated. Thank you for your consideration.

Sincerely,

STANTECH CONSULTING INC.

Robert Larkin
Manager, Environmental Planning and Archaeology

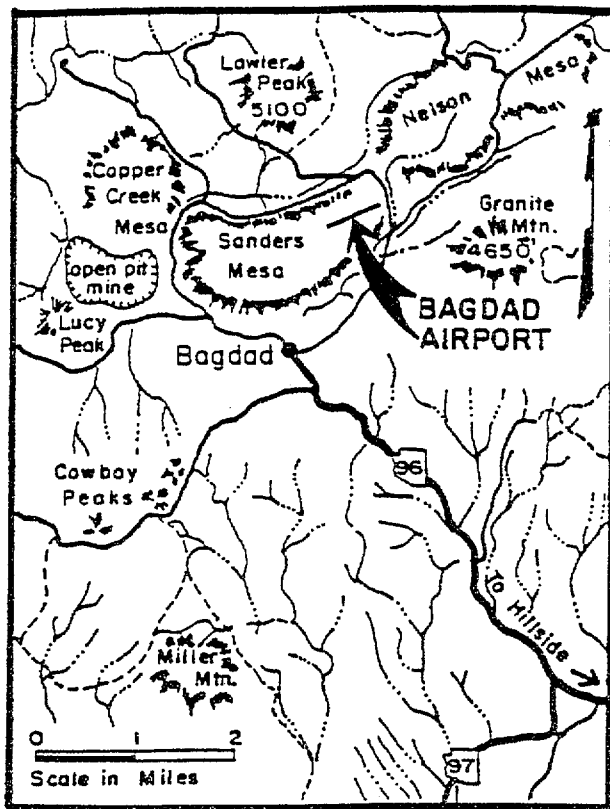
Enclosure

cc:

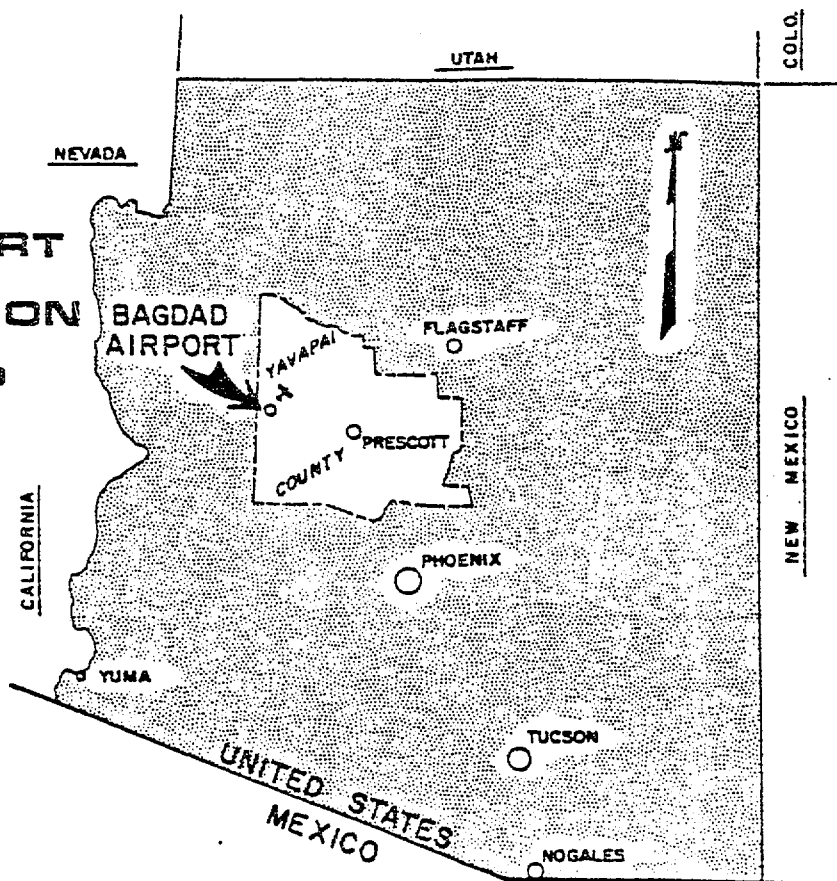
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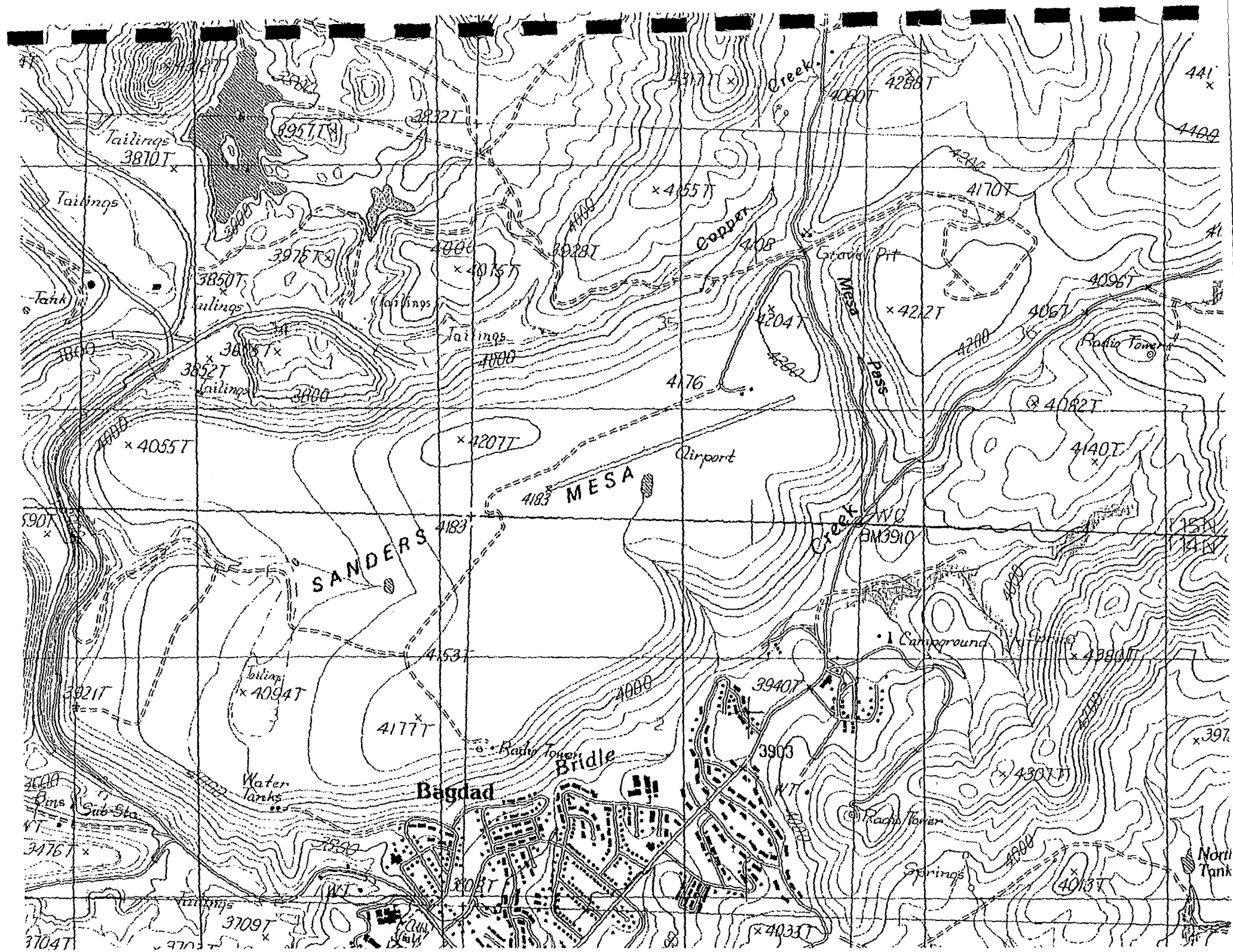
VICINITY MAP



AIRPORT LOCATION MAP



AIRPORT LOCATION



THE STATE



OF ARIZONA

GAME & FISH DEPARTMENT

2221 West Greenway Road, Phoenix, Arizona 85023-4399 (602) 942-3000

www.gfd.state.az.us

Kingman Office, 5325 N. Stockton Hill Rd., Kingman AZ 86401-1037

Governor

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M. Jean Hassell, Scottsdale

Dennis D. Manning, Alpine

Director

Duane L. Shroufe

Deputy Director

Thomas W. Spalding

September 14, 1998

Mr. Robert Larkin
Manager
Environmental Planning and Archaeology
Stantech Consulting Inc.
7776 Pointe Parkway W. Suite 290
Phoenix, AZ 85044

Re: Bagdad Airport Master Plan Update

Dear Mr. Larkin:

The Arizona Game and Fish Department (Department) has reviewed the proposed site for implementation of the new Bagdad Airport Master Plan. The area is adjacent to the Cyprus Bagdad mine and encompasses the existing airport. The Department offers the following comments for your consideration.

The Department's Heritage Data Management System has been accessed and current records show that the special status species listed below have been documented as occurring in the project vicinity.

<u>COMMON NAME</u>	<u>SCIENTIFIC NAME</u>	<u>STATUS</u>
common black-hawk	<i>Buteogallus anthracinus</i>	WC,S
lowland leopard frog	<i>Rana yavapaiensis</i>	WC,S
roundtail chub	<i>Gila robusta</i>	WC,S
Sonoran desert tortoise	<i>Gopherus agassizii</i>	WC,S

STATUS DEFINITIONS

WC - Wildlife of Special Concern in Arizona. Species whose occurrence in Arizona is or may be in jeopardy, or with known or perceived threats or population declines, as described by the Department's listing of **Wildlife of Special Concern in Arizona** (WSCA, in prep.). Species included in WSCA are currently the same as those in **Threatened Native Wildlife in Arizona** (1988).

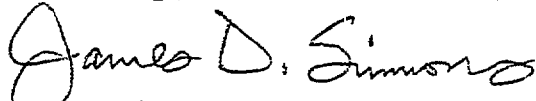
S - Sensitive. Species classified as "sensitive" by the Regional Forester when occurring on lands managed by the U.S.D.A. Forest Service.

Mr. Robert Larkin
September 14, 1998
2

The first three species listed above are riparian dependant species and should not be affected by the proposed project. The Department anticipates few adverse impacts to any fish and wildlife resources due to project implementation. We do recommend that construction personnel follow the Department's guidelines for handling desert tortoises (enclosed) if any are encountered during construction.

Thank you for the opportunity to review this project and provide input that could be important to Arizona's wildlife resources. If you have any questions concerning this letter, please contact Duane Aubuchon or myself at the Department's Kingman Regional Office, (520) 692-7700.

Sincerely,



James Simmons
Wildlife Manager

JS:DJA

cc: Robert Posey, Field Supervisor
Rod Lucas, Kingman Regional Supervisor
AGFD Log# 8-24-98(10)

Enclosure

GUIDELINES FOR HANDLING SONORAN DESERT TORTOISES ENCOUNTERED ON DEVELOPMENT PROJECTS

Arizona Game and Fish Department

Revised January 17, 1997

The Arizona Game and Fish Department (Department) has developed the following guidelines to reduce potential impacts to desert tortoises, and to promote the continued existence of tortoises throughout the state. These guidelines apply to short-term and/or small-scale projects, depending on the number of affected tortoises and specific type of project.

Desert tortoises of the Sonoran population are those occurring south and east of the Colorado River. Tortoises encountered in the open should be moved out of harm's way to adjacent appropriate habitat. If an occupied burrow is determined to be in jeopardy of destruction, the tortoise should be relocated to the nearest appropriate alternate burrow or other appropriate shelter, as determined by a qualified biologist. Tortoises should be moved less than 48 hours in advance of the habitat disturbance so they do not return to the area in the interim. Tortoises should be moved quickly, kept in an upright position at all times and placed in the shade. Separate disposable gloves should be worn for each tortoise handled to avoid potential transfer of disease between tortoises. Tortoises must not be moved if the ambient air temperature exceeds 105 degrees fahrenheit unless an alternate burrow is available or the tortoise is in imminent danger.

A tortoise may be moved up to two miles, but no further than necessary from its original location. If a release site, or alternate burrow, is unavailable within this distance, and ambient air temperature exceeds 105 degrees fahrenheit, the Department should be contacted to place the tortoise into a Department-regulated desert tortoise adoption program. Tortoises salvaged from projects which result in substantial permanent habitat loss (e.g. housing and highway projects), or those requiring removal during long-term (longer than one week) construction projects, will also be placed in desert tortoise adoption programs. *Managers of projects likely to affect desert tortoises should obtain a scientific collecting permit from the Department to facilitate temporary possession of tortoises.* Likewise, if large numbers of tortoises (>5) are expected to be displaced by a project, the project manager should contact the Department for guidance and/or assistance.

Please keep in mind the following points:

- These guidelines do not apply to the Mohave population of desert tortoises (north and west of the Colorado River). Mohave desert tortoises are specifically protected under the Endangered Species Act, as administered by the U.S. Fish and Wildlife Service.
- These guidelines are subject to revision at the discretion of the Department. We recommend that the Department be contacted during the planning stages of any project that may affect desert tortoises.
- Take, possession, or harassment of wild desert tortoises is prohibited by state law. Unless specifically authorized by the Department, or as noted above, project personnel should avoid disturbing any tortoise.

RAC:NLO:rc



20 August 1998
File: 28342801

United States Department of the Interior
Fish and Wildlife Service
2321 W. Royal Palm Road, Ste. 103
Phoenix, Az 85021-4951

Attention: Sam F. Spiller

Dear Mr. Spiller:

Reference: Bagdad Airport Master Plan Update

Stantech Consulting, Inc. is in the process of preparing a master plan update for the Bagdad Airport. At this point in time, there are no identified needs for new construction. However, we would like to request any information you have regarding threatened, endangered, or candidate species in the area of the airport.

Any additional comments you wish to submit would be appreciated. Due to time limitations, comments on or before **September 14** would be appreciated. Thank you for your consideration.

Sincerely,

STANTECH CONSULTING INC.

Robert Larkin
Manager, Environmental Planning and Archaeology

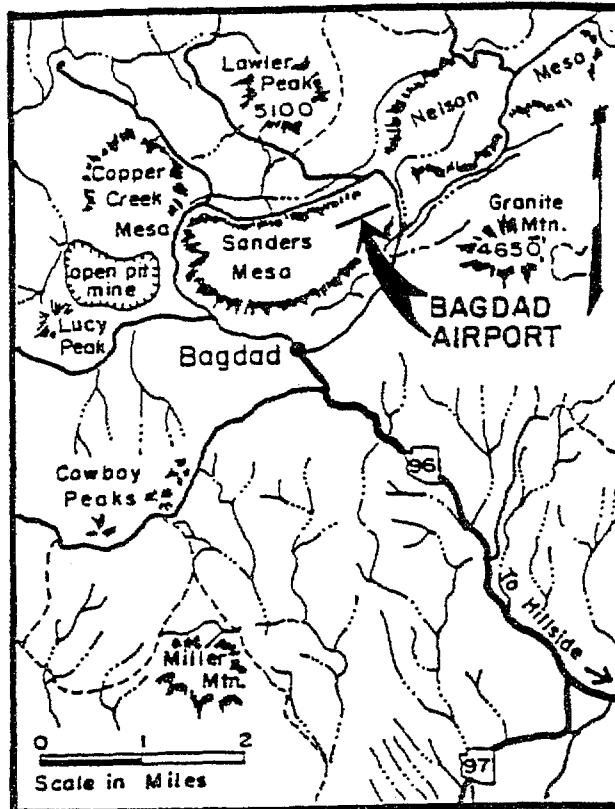
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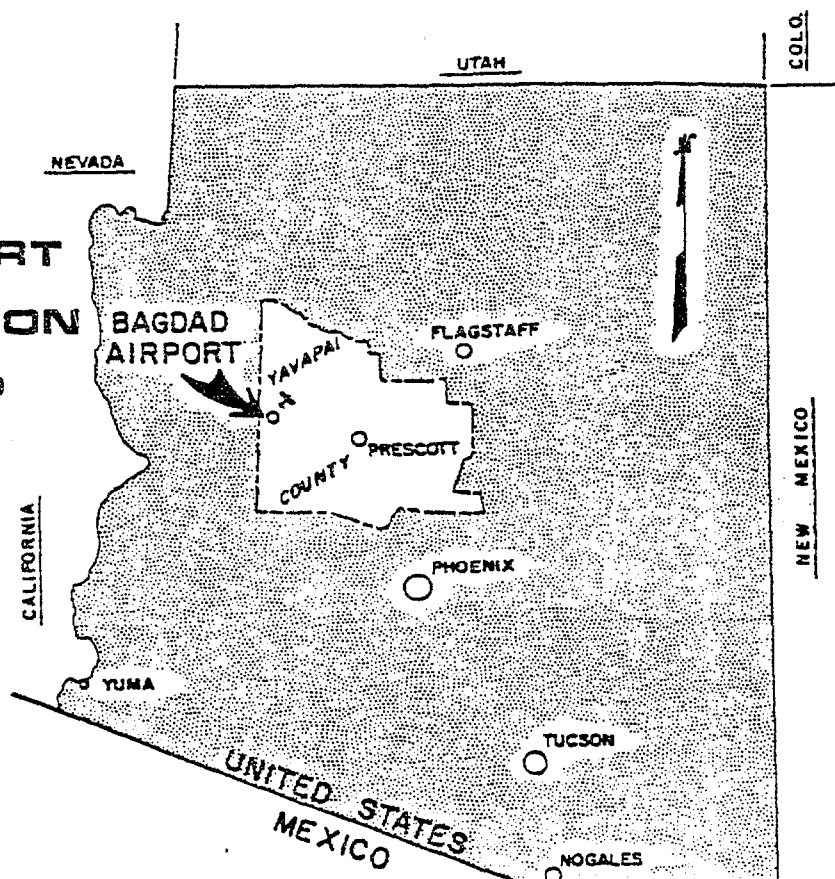
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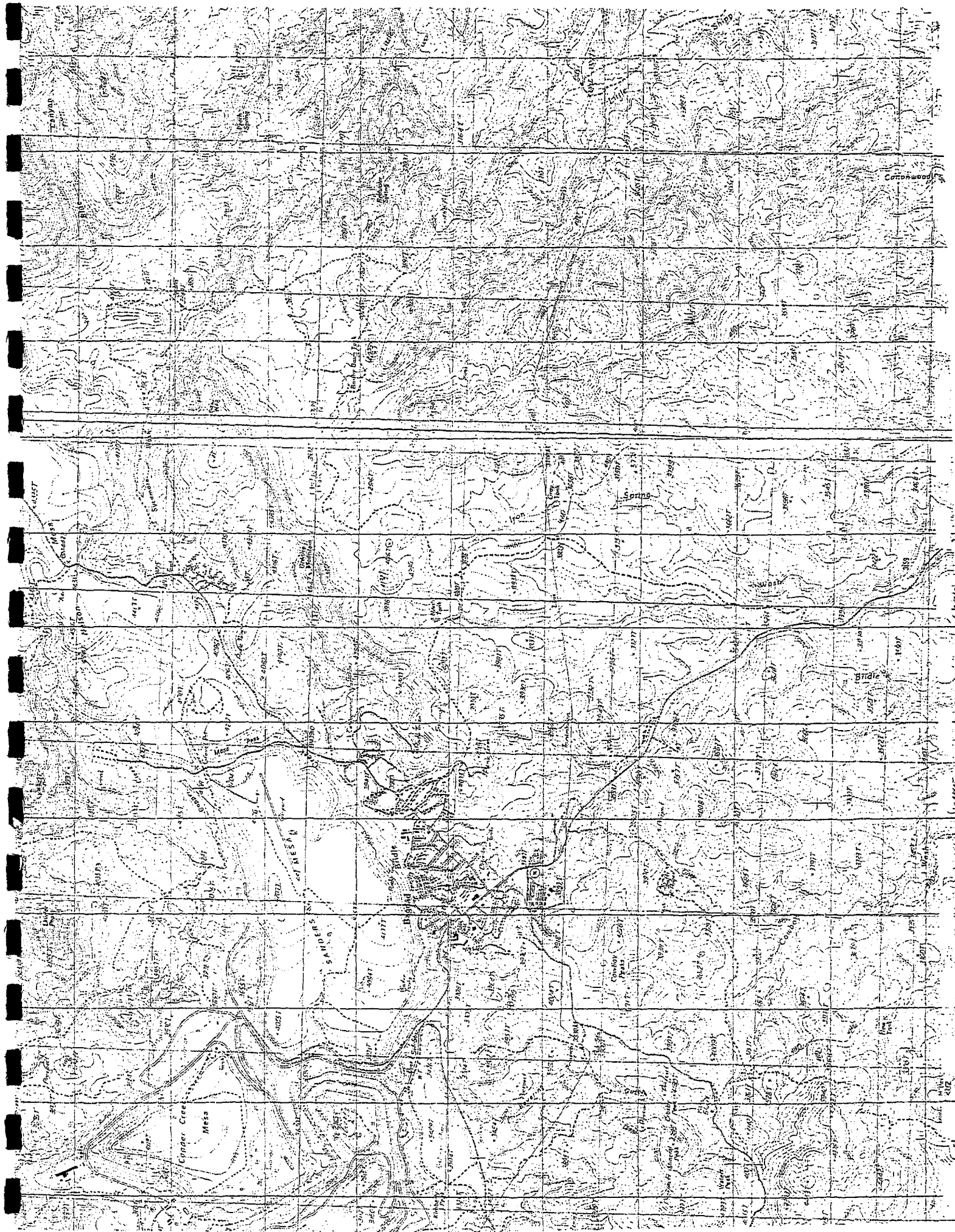
VICINITY MAP



AIRPORT LOCATION MAP



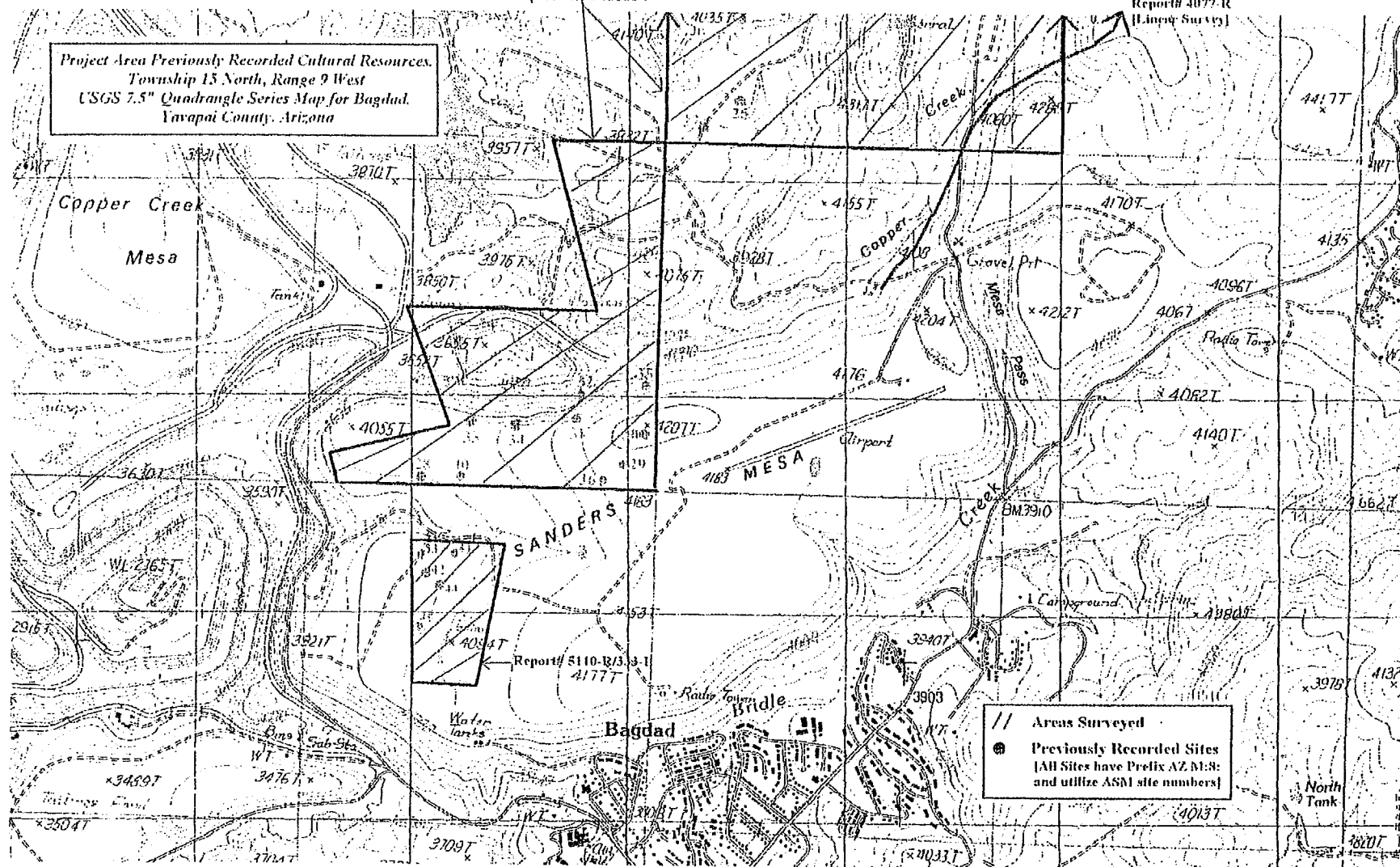
AIRPORT LOCATION



Report# 5034-R/322-1

Report# 4077-R
(Linear Survey)

Project Area Previously Recorded Cultural Resources.
Township 15 North, Range 9 West
USGS 7.5" Quadrangle Series Map for Bagdad,
Yavapai County, Arizona



// Areas Surveyed
● Previously Recorded Sites
[All Sites have Prefix AZ.M:R:
and utilize ASM site numbers]



United States Department of the Interior

Fish and Wildlife Service

Arizona Ecological Services Field Office

2321 W. Royal Palm Road, Suite 103

Phoenix, Arizona 85021-4951

(602) 640-2720 Fax (602) 640-2730



In Reply Refer To:

AESO/SE

2-21-98-I-384

CCN 981039

August 31, 1998

RECEIVED
AUG 31 1998
STANTECH

Mr. Robert Larkin, AICP
Stantech Consulting Inc.
7776 Pointe Parkway West, Suite 290
Phoenix, Arizona 85044

RE: Bagdad Airport Master Plan

Dear Mr. Larkin:

This letter responds to your August 20, 1998, request for an inventory of threatened or endangered species, or those that are proposed to be listed as such under the Endangered Species Act of 1973, as amended (Act), which may potentially occur in your project area (Yavapai County). The enclosed list may include candidate species as well. We hope the enclosed county list of species will be helpful. In future communications regarding this project, please refer to consultation number 2-21-98-I-384.

The enclosed list of the endangered, threatened, proposed, and candidate species includes all those potentially occurring anywhere in the county, or counties, where your project occurs. Please note that your project area may not necessarily include all or any of these species. The information provided includes general descriptions, habitat requirements, and other information for each species on the list. Also on the enclosed list is the Code of Federal Regulations (CFR) citation for each listed or proposed species. Additional information can be found in the CFR and is available at most public libraries. This information should assist you in determining which species may or may not occur within your project area. Site-specific surveys could also be helpful and may be needed to verify the presence or absence of a species or its habitat as required for the evaluation of proposed project-related impacts.

Endangered and threatened species are protected by Federal law and must be considered prior to project development. If the action agency determines that listed species or critical habitat may be adversely affected by a federally funded, permitted, or authorized activity, the action agency must request formal consultation with the Service. If the action agency determines that the planned action may jeopardize a proposed species or destroy or adversely modify proposed critical habitat, the action agency must enter into a section 7 conference with the Service. Candidate species are those which are being considered for addition to the list of threatened or endangered species. Candidate species are those for which there is sufficient information to support a proposal for listing. Although candidate species have no legal protection under the

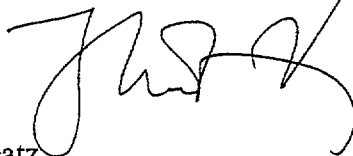
Act, we recommend that they be considered in the planning process in the event that they become listed or proposed for listing prior to project completion.

If any proposed action occurs in or near areas with trees and shrubs growing along watercourses, known as riparian habitat, the Service recommends the protection of these areas. Riparian areas are critical to biological community diversity and provide linear corridors important to migratory species. In addition, if the project will result in the deposition of dredged or fill materials into waterways or excavation in waterways, we recommend you contact the Army Corps of Engineers which regulates these activities under Section 404 of the Clean Water Act.

The State of Arizona protects some plant and animal species not protected by Federal law. We recommend you contact the Arizona Game and Fish Department and the Arizona Department of Agriculture for State-listed or sensitive species in your project area.

The Service appreciates your efforts to identify and avoid impacts to listed and sensitive species in your project area. If we may be of further assistance, please contact Tom Gatz.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tom Gatz', with a long, sweeping horizontal stroke extending to the right.

Tom Gatz
Acting Field Supervisor

Enclosure

cc: Director, Arizona Game and Fish Department, Phoenix, AZ

4/9/98

LISTED TOTAL= 13

NAME: ARIZONA AGAVE

AGAVE ARIZONICA

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: No CFR: 49 FR 21055, 05-18-1984

DESCRIPTION: HAS ATTRACTIVE ROSETTES OF BRIGHT GREEN LEAVES WITH DARK
MAHOGANY MARGINS. FLOWER: BORNE ON SUB-UMBELLATE
INFLORESCENCES.

ELEVATION

RANGE: 3000-6000 FT.

COUNTIES: GILA, YAVAPAI, MARICOPA

HABITAT: TRANSITION ZONE BETWEEN OAK-JUNIPER WOODLAND & MOUNTAIN MAHOGANY-OAK SCRUB

SCATTERED CLONES IN NEW RIVER MOUNTAINS AND SIERRA ANCHA. USUALLY FOUND ON STEEP, ROCKY
SLOPES. POSSIBLY MAZATAL MOUNTAINS. SHOULD BE LOOKED FOR WHEREVER THE RANGES OF Agave
tourmeyana var. bella AND Agave chrysantha OVERLAP.

NAME: ARIZONA CLIFFROSE

PURSHIA SUBINTEGRA

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 49 FR 22326 5-29-84

DESCRIPTION: EVERGREEN SHRUB OF THE ROSE FAMILY (ROSEACEAE). BARK PALE
SHREDDY. YOUNG TWIGS WITH DENSE HAIRS. LEAVES 1-5 LOBES AND
EDGES CURL DOWNWARD (REVOLUTE). FLOWERS: 5 WHITE OR YELLOW
PETALS <0.5 INCH LONG.

ELEVATION

RANGE: <4000 FT.

COUNTIES: GRAHAM YAVAPAI MARICOPA MOHAVE

HABITAT: CHARACTERISTIC WHITE SOILS OF TERTIARY LIMESTONE LAKEBED DEPOSITS.

WHITE SOILS OF TERTIARY LIMESTONE LAKEBED DEPOSITS CAN BE SEEN FROM A DISTANCE.

NAME: HUALAPAI MEXICAN VOLE

MICROTUS MEXICANUS HUALPAIENSIS

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 52 FR 36776, 10-01-87

DESCRIPTION: SMALL, CINNAMON-BROWN MOUSE-SIZED WITH SHORT TAIL AND LONG
FUR THAT NEARLY COVERS ITS SMALL ROUND EARS.

ELEVATION

RANGE: 3500-7000 FT.

COUNTIES: MOHAVE, COCONINO, YAVAPAI

HABITAT: GRASS/FORB HABITATS IN PONDEROSA PINE, TYPICALLY NEAR WATER. (CONTINUED BELOW)

ALSO FOUND IN PINYON-JUNIPER & PINE-OAK ASSOCIATIONS WITH A VARIETY OF SHRUBS AND GRASSES.
DISTRIBUTION HAS GENERALLY BEEN CONSIDERED TO BE IN THE HUALAPAI MOUNTAIN RANGE AND POSSIBLY IN
THE PROSPECT VALLEY AND MUSIC MOUNTAINS. ONGOING RESEARCH SUGGESTS THAT POPULATIONS MAY
OCCUR IN THE HUALAPAI NATION, AUBREY CLIFFS, CHINO WASH, SANTA MARIA MOUNTAINS, BRADSHAW
MOUNTAINS, ROUND MOUNTAIN, AND SIERRA PRIETA MOUNTAINS. THE TAXON MAY ULTIMATELY BE RENAMED.

LISTED, PROPOSED, AND CANDIDATE SPECIES FOR THE FOLLOWING COUNTY:

YAVAPAI

4/9/98

NAME: GILA TROUT

ONCORHYNCHUS GILAE

STATUS: ENDANGERED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 32 FR 4001, 03-11-1967

DESCRIPTION: DEEP BODIED WITH FINE PROFUSE SPOTTING ON THE BODY, DORSAL, AND ADIPOSE FINS. DORSAL, ANAL, AND PELVIC FINS EDGED IN WHITE

ELEVATION

RANGE: 5000-10000 FT.

COUNTIES: YAVAPAI

HABITAT: SMALL HIGH MOUNTAIN STREAMS

PRESENTLY EXTRIPATED IN ARIZONA, ALTHOUGH A PRESUMED STOCKED POPULATION MAY EXIST IN GAP CREEK.

NAME: RAZORBACK SUCKER

XYRAUCHEN TEXANUS

STATUS: ENDANGERED

CRITICAL HAB Yes RECOVERY PLAN: Yes CFR: 55 FR 21154, 05-22-1990;

DESCRIPTION: LARGE (UP TO 3 FEET AND UP TO 16 POUNDS) LONG, HIGH SHARP-EDGED KEEL-LIKE HUMP BEHIND THE HEAD. HEAD FLATTENED ON TOP. OLIVE-BROWN ABOVE TO YELLOWISH BELOW.

59 FR 13374, 03-21-1994

ELEVATION

RANGE: <6000 FT.

COUNTIES: GREENLEE, MOHAVE, PINAL, YAVAPAI, YUMA, LA PAZ, MARICOPA (REFUGIA), GILA, COCONINO, GRAHAM

HABITAT: RIVERINE & LACUSTRINE AREAS, GENERALLY NOT IN FAST MOVING WATER AND MAY USE BACKWATERS

SPECIES IS ALSO FOUND IN HORSESHOE RESERVOIR (MARICOPA COUNTY). CRITICAL HABITAT INCLUDES THE 100-YEAR FLOODPLAIN OF THE RIVER THROUGH GRAND CANYON FROM CONFLUENCE WITH PARIA RIVER TO HOOVER DAM; HOOVER DAM TO DAVIS DAM; PARKER DAM TO IMPERIAL DAM. ALSO GILA RIVER FROM AZ/NM BORDER TO COOLIDGE DAM; AND SALT RIVER FROM HWY 60/SR 77 BRIDGE TO ROOSEVELT DAM; VERDE RIVER FROM FS BOUNDARY TO HORSESHOE LAKE.

NAME: SPIKEDACE

MEDA FULGIDA

STATUS: THREATENED

CRITICAL HAB No RECOVERY PLAN: Yes CFR: 51 FR 23769, 07-01-1986;

DESCRIPTION: SMALL (<3 INCHES) SLIM WITH SILVERY SIDES & 'SPINE' ON DORSAL FIN. BREEDING MALES BRASSY GOLDEN COLOR

59 FR 10906, 03-08-1994

ELEVATION

RANGE: <6000 FT.

COUNTIES: GRAHAM, PINAL, GREENLEE, YAVAPAI, (AZ); GRANT, (NM)

HABITAT: MODERATE TO LARGE PERENNIAL STREAMS WITH GRAVEL COBBLE SUBSTRATES AND MODERATE TO SWIFT VELOCITIES

PRESENTLY FOUND IN ARAVAIPA CREEK, EAGLE CREEK, VERDE RIVER ABOVE VERDE VALLEY, EAST-WEST- MAIN AND MIDDLE FORKS OF THE GILA RIVER IN NEW MEXICO, AND GILA RIVER FROM SAN PEDRO RIVER TO ASHURST HAYDEN DAM. CRITICAL HABITAT WAS REMOVED IN MARCH 1998.

4/9/98

NAME: SOUTHWESTERN WILLOW FLYCATCHER *EMPIDONAX TRAILLII EXTIMUS*

STATUS: ENDANGERED CRITICAL HAB Yes RECOVERY PLAN: No CFR: 60 FR 10694, 02-27-95

DESCRIPTION: SMALL PASSERINE (ABOUT 6") GRAYISH-GREEN BACK AND WINGS,
WHITISH THROAT, LIGHT OLIVE-GRAY BREAST AND PALE YELLOWISH
BELLY. TWO WINGBARS VISIBLE. EYE-RING FAINT OR ABSENT.

ELEVATION

RANGE: <8500 FT.

COUNTIES: YAVAPAI, GILA, MARICOPA, MOHAVE, COCONINO, NAVAJO, APACHE, PINAL, LA PAZ, GREENLEE, GRAHAM,
YUMA, PIMA, COCHISE, SANTA CRUZ

HABITAT: COTTONWOOD/WILLOW & TAMARISK VEGETATION COMMUNITIES ALONG RIVERS & STREAMS

MIGRATORY RIPARIAN OBLIGATE SPECIES THAT OCCUPIES BREEDING HABITAT FROM LATE APRIL TO SEPTEMBER. DISTRIBUTION WITHIN ITS RANGE IS RESTRICTED TO RIPARIAN CORRIDORS. DIFFICULT TO DISTINGUISH FROM OTHER MEMBERS OF THE EMPIDONAX COMPLEX BY SIGHT ALONE. TRAINING SEMINAR REQUIRED FOR THOSE CONDUCTING FLYCATCHER SURVEYS. CRITICAL HABITAT ON PORTIONS OF THE 100-YEAR FLOODPLAIN ON SAN PEDRO AND VERDE RIVERS; WET BEAVER AND WEST CLEAR CREEKS, INCLUDING TAVASCI MARSH AND ISTER FLAT; THE COLORADO RIVER, THE LITTLE COLORADO RIVER, AND THE WEST, EAST, AND SOUTH FORKS OF THE LITTLE COLORADO RIVER, REFERENCE 60 CFR:62 FR 39129, 7/22/97.



20 August 1998
File: 28342801

Deputy State Historic Preservation Officer
Arizona State Parks
1300 W. Washington
Phoenix, AZ 85007

Attention: Carol Griffith

Dear Ms. Griffith:

Reference: Bagdad Airport Master Plan

Stantech Consulting, Inc. is in the process of preparing a master plan update for the Bagdad Airport. At this point in time, there are no identified needs for new construction. Our review of your records indicated that the project area has not been surveyed for cultural resources.

Any comments you wish to submit would be appreciated. Due to time limitations, comments on or before **September 14** would be appreciated. Thank you for your consideration.

Sincerely,

STANTECH CONSULTING INC.

A handwritten signature in cursive script, appearing to read 'Robert Larkin'.

Robert Larkin
Manager, Environmental Planning and Archaeology

Enclosure

cc:

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